CLAIMS

1. (Twice Amended) A respiratory suction apparatus comprising:

a suction catheter for removing fluids from a respiratory tract of a patient by insertion of a distal end of the catheter into said respiratory tract and withdrawal of the distal end of the catheter through a portion of said tract while applying negative pressure to a lumen of the catheter;

a protective sleeve surrounding a proximal longitudinal portion of the catheter;

a distal adapter configured for communication with a manifold of a patient's artificial airway;

a collar disposed within the adapter and partially surrounding the distal end of the catheter when the catheter is withdrawn from the manifold, the collar and the catheter defining a substantially uniform cylindrical space around a distal portion of the catheter, the cylindrical space capable of directing lavage solution into the adapter;

a valve device configured in the adapter to substantially isolate the catheter from the manifold upon withdrawing the distal portion of the suction catheter from said manifold and applying suction through the catheter lumen, said valve device being opened by advancement of said suction catheter through said

valve device; and

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a lavage port in fluid communication with the cylindrical space defined by the collar and the catheter, the lavage port in fluid communication with the patient's artificial airway through the cylindrical space and the adapter.

- 2. A respiratory suction apparatus according to Claim 1, wherein the valve device comprises a flap valve disposed distal to a distal end of the collar.
- 3. A respiratory suction apparatus according to Claim 2, wherein the flap valve seats against the distal end of the collar upon applying suction through the catheter lumen.
- 4. A respiratory suction apparatus according to Claim 2, wherein the flap valve seats against a distal end of the catheter upon applying suction through the catheter lumen.
- 5. A respiratory suction apparatus according to Claim 1, further comprising a cleaning enclosure defined within the adapter wherein the distal end of the catheter is exposed to cleaning liquids and turbulent airflow during a cleaning procedure.

- 6. A respiratory suction apparatus according to Claim 5, wherein the valve device is disposed distal to the collar and comprises an aperture therethrough for establishing the turbulent airflow.
- 7. A respiratory suction apparatus according to Claim 6, wherein the valve device is disposed so as to seat against a distal end of the collar.
- 8. A respiratory suction apparatus according to Claim 6, wherein the airflow is filtered ambient air metered through an opening defined through a wall of the cleaning enclosure.
- 9. A respiratory suction apparatus according to Claim 8, further comprising a valve disposed in the opening.
- 10. (Twice Amended) A respiratory suction apparatus comprising: an elongate suction catheter having a distal end; a protective sleeve surrounding a proximal portion of the catheter;
- a distal adapter configured for communication with a manifold of a patient's artificial airway;
 - a collar disposed within the adapter and partially

surrounding the distal end of the catheter when the catheter is withdrawn from said manifold, the collar and the catheter defining a substantially uniform cylindrical space around a distal portion of the catheter, the cylindrical space capable of directing lavage solution into the adapter;

a cleaning enclosure defined within the adapter wherein the distal end of the catheter is exposed to cleaning liquids and turbulent airflow during a cleaning procedure;

means for providing a predetermined rate of airflow to the enclosure responsive to negative pressure within the catheter;

the catheter being protected at all serviceable times against environmental contamination by a combination of the sleeve, adapter and enclosure;

a valve device, comprising a flap and a hinge, configured in the adapter whereby the flap occludes the catheter responsive to a pressure differential between said manifold and the enclosure, the catheter opens the flap by manual insertion pressure of the catheter on the flap, and the hinge retains the flap; and

a lavage port in fluid communication with the cylindrical space defined by the collar and the catheter, the lavage port in fluid communication with the patient's artificial airway through the cylindrical space and the adapter.